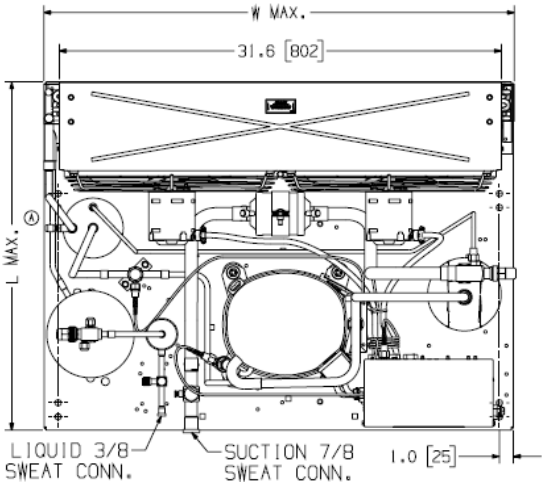
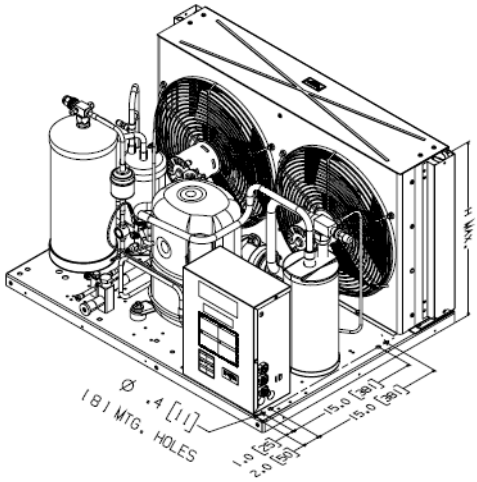
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWG4516EXTXF **BoM: 2B1170-1** **R-22** **1 1/2 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWG4516EXTXF	25.0	33.5	19.5	19.5	7/8” S	3/8” S	19 lbs	1800	38.5	190
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
10	32.8	6539	1087	90	5903	1062	99	5298	1068	108	4693	1084	117
15	37.7	7678	1143	91	6985	1131	101	6298	1146	110	5630	1168	119
20	43.0	9020	1198	93	8239	1199	102	7458	1224	111	6682	1253	120
25	48.7	10547	1253	96	9637	1267	104	8750	1302	113	7866	1337	122
30	54.8	12173	1307	98	11160	1335	107	10153	1380	115	9147	1422	124
35	61.4	13950	1361	100	12798	1403	109	11647	1458	117	10552	1504	126
40	68.5	15867	1414	103	14568	1469	111	13220	1535	120	11933	1589	128
45	76.0	17793	1470	106	16396	1535	114	14944	1606	122	13498	1667	130
50	84.0	19845	1524	108	18213	1604	116	16586	1683	124	15048	1746	132
55	92.6	21963	1576	111	20143	1667	118	18330	1754	126	16531	1825	134

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

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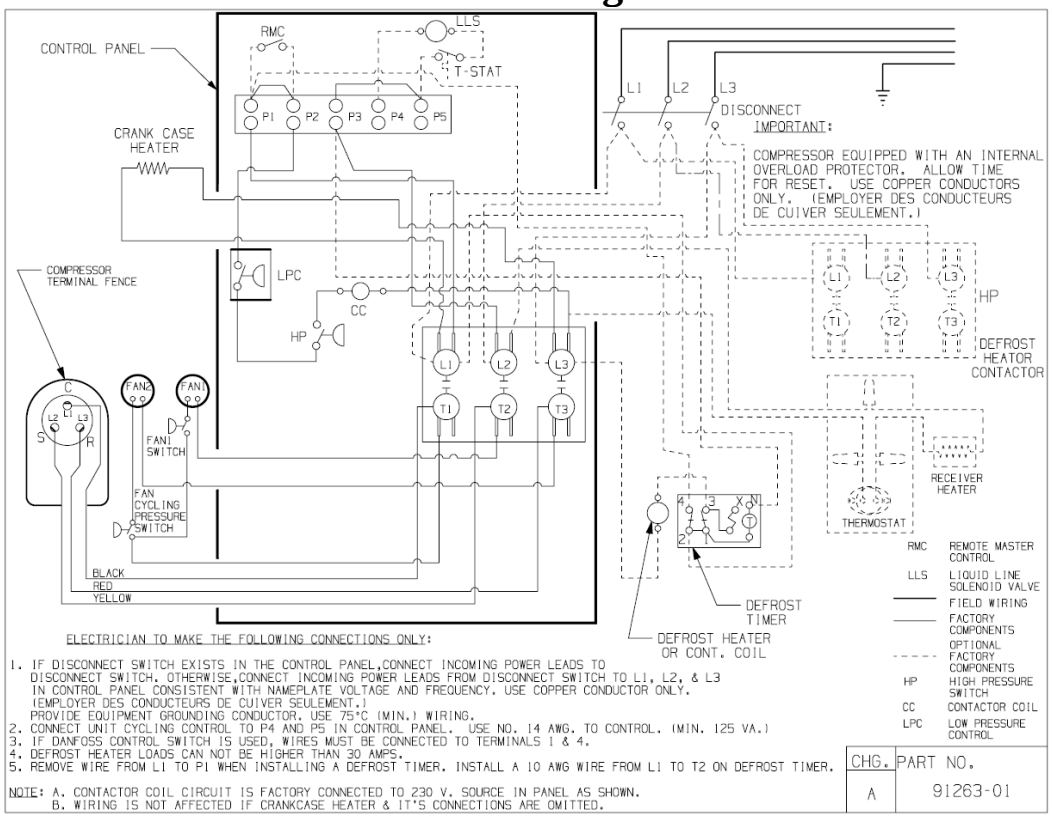
Specifications/ Parts:

Model	AWG4516EXTXF
Unit Bill of Material	2B1170-1
Nominal Volts-Hz-Ph	200-230-60-3
Refrigeration Range	20° to 55°
Design Pressure Low	150
Design Pressure High	450
Voltage Range	180 to 254
Min. Circuit Ampacity	8.7
Max. Fuse Size (amps)	15
Compressor Model	AWG5515EXT
Comp. Bill of Material	AW700RT-120-A2
Compressor RLA/LRA	5.6 / 51.0
Overload	INTERNAL
Relay	N/A
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	N/A
Start Capacitor Rating	N/A
Contactor	91014
Unit Drawing	DGU1918-58
Wiring Diagram	91263-01

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
COMPRESSOR TERMINAL FENCE
LPC
CC
HP
T1 T2 T3
DEFROST HEATOR CONTACTOR
C
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
RECEIVER HEATER
THERMOSTAT
BLACK
RED
YELLOW
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
CC CONTACTOR COIL
LPC LOW PRESSURE CONTROL
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL,CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE,CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
A 91263-01